

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A low-pressure gas discharge lamp,

which is equipped with comprising:

a gas discharge vessel containing an inert gas filling and

$2 \times 10^{-11}$  to  $2 \times 10^{-9}$  mole/cm<sup>3</sup> of tin halides in a gas phase; as the

buffer gas, and with

electrodes; and with

means for generating and maintaining a low-pressure gas

discharge, characterized in that it contains at least one tin

halide.

Claim 2 (Canceled)

3. (Currently Amended) A low-pressure gas discharge lamp as

claimed in claim 1, characterized in that it contains comprising:

a gas discharge vessel containing an inert gas and  
approximately  $2 \times 10^{-10}$  mole/cm<sup>3</sup> of tin halides in the gas phase,  
corresponding to an operational pressure of approximately 10  $\mu$ bar;  
electrodes; and  
means for generating and maintaining a low-pressure gas  
discharge.

4. (Currently Amended) A low-pressure gas discharge lamp as  
claimed in claim 1, characterized in that comprising:

a gas discharge vessel containing an inert gas filling;  
electrodes; and  
means for generating and maintaining a low-pressure gas  
discharge, wherein a wall temperature of T\*  $\pm 50$  K is set, and  
wherein T\* is 220° C for tin chloride, 230° C for tin bromide, and  
275° C for tin iodide.

5. (Currently Amended) A the low-pressure gas discharge lamp  
as claimed in claim 1, characterized in that the wherein a gas  
pressure of the inert gas lies in the range between 1 and 5 mbar,

~~and is preferably around 2 mbar.~~

6. (Currently Amended) ~~A~~ The low-pressure gas discharge lamp as claimed in claim 1, ~~characterized in that the~~ wherein a UV radiation emitted as a result of the discharge is converted into visible radiation by means of suitable fluorescent materials.

7. (Currently Amended) ~~A~~ The low-pressure gas discharge lamp as claimed in claim 1, ~~characterized in that the~~ wherein walls of the discharge device comprise quartz, Al<sub>2</sub>O<sub>3</sub>, or yttrium-aluminum garnet, or similar known materials.

8. (Currently Amended) ~~A~~ The low-pressure gas discharge lamp as claimed in claim 1, ~~characterized in that~~ wherein the discharge can be excited inductively or capacitively with external electrodes and a high-frequency alternating field.

9. (Currently Amended) ~~A~~ The low-pressure gas discharge lamp as claimed in claim 1, ~~characterized in that the internal~~ wherein the electrodes comprise conductive materials (for example tungsten

~~or rhenium).~~

10. (Currently Amended) A The low-pressure gas discharge lamp as claimed in claim 1, ~~characterized in that it contains internal wherein the electrodes which are additionally provided with a~~ material of low work function.

11. (New) The low-pressure gas discharge lamp as claimed in claim 1, wherein the electrodes comprise rhenium.

12. (New) The low-pressure gas discharge lamp as claimed in claim 1, wherein the electrodes comprise tungsten.

13. (New) The low-pressure gas discharge lamp as claimed in claim 1, further comprising a fluorescent coating on an outer surface of the gas discharge vessel.